

AP20 Rec'd PCT/PTO 01 AUG 2006

1/2

SEQUENCE LISTING

<110> UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INC.

<120> INCREASED STRESS TOLERANCE AND ENHANCED YIELD IN PLANTS

<130> 10457-055PCT

<140> PCT/US05/009047

<141> 2005-03-17

<150> 60/554,041

<151> 2004-03-17

<160> 6

<170> PatentIn Ver. 3.3

<210> 1

<211> 381

<212> DNA

<213> Escherichia coli

<400> 1

```

atgattcgca cgatgctgca gggcaaactc caccgcgtga aagtgactca tgcggacctg 60
cactatgaag gttcttgccg cattgaccag gattttcttg acgcagccgg tattctcgaa 120
aacgaagcca ttgatatctg gaatgtcacc aacggcaagc gtttctccac ttatgccatc 180
gcggcagaac gcggttcgag aattatttct gttaacggtg cggcggccca ctgcgccagt 240
gtcggcgata ttgtcatcat cgccagcttc gttaccatgc cagatgaaga agctcgacc 300
tggcgaccca acgtcgcccta ttttgaaggc gacaatgaaa tgaaacgtac cgcgaaagcg 360
attccggtac aggttgcttg a                                     381

```

<210> 2

<211> 126

<212> PRT

<213> Escherichia coli

<400> 2

```

Met Ile Arg Thr Met Leu Gln Gly Lys Leu His Arg Val Lys Val Thr
  1           5           10           15

His Ala Asp Leu His Tyr Glu Gly Ser Cys Ala Ile Asp Gln Asp Phe
      20           25           30

Leu Asp Ala Ala Gly Ile Leu Glu Asn Glu Ala Ile Asp Ile Trp Asn
      35           40           45

Val Thr Asn Gly Lys Arg Phe Ser Thr Tyr Ala Ile Ala Ala Glu Arg
      50           55           60

Gly Ser Arg Ile Ile Ser Val Asn Gly Ala Ala Ala His Cys Ala Ser
      65           70           75           80

Val Gly Asp Ile Val Ile Ile Ala Ser Phe Val Thr Met Pro Asp Glu
      85           90           95

```

2/2

Glu Ala Arg Thr Trp Arg Pro Asn Val Ala Tyr Phe Glu Gly Asp Asn
100 105 110

Glu Met Lys Arg Thr Ala Lys Ala Ile Pro Val Gln Val Ala
115 120 125

<210> 3
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 3
ccgagctcga cagggtagaa aggtaga

27

<210> 4
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 4
cccatgggg gataacaatc aagcaacc

28

<210> 5
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 5
tcatgattcg cacgatgctg ccagg

25

<210> 6
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 6
cagctgagca acctgtaccg gaatcgc

27